

IN THE CLAIMS

Please delete all prior lists of claims in the application and insert the following list of claims:

1. to 30. (CANCELED)

31. (CURRENTLY AMENDED) An aqueous preservation medium for preserving biological materials, comprising:

- (a) platelets;
- (b) at least one polyhydroxy compound, ~~where~~ wherein the polyhydroxy compound is a disaccharide, and further wherein the concentration of the polyhydroxy compound in the medium is from about 10 mM to about 300 mM; ~~and~~
- (c) phosphate ions, where the concentration of phosphate ions in the medium is from about 5 mM to about 90 mM; ~~and~~
- (d) water.

32. (ORIGINAL) The aqueous preservation medium of claim 31, further comprising albumin.

33. (ORIGINAL) The aqueous preservation medium of claim 31, wherein the polyhydroxy compound is trehalose.

34. (CURRENTLY AMENDED) A method of preparing a preserved biological material composition, comprising:

- (a) incubating platelets in a first medium comprising (i) at least one polyhydroxy compound, ~~where~~ wherein the polyhydroxy is a disaccharide, and further wherein the concentration of the polyhydroxy compound is from about 20 to about 500 mM; ~~and~~ (ii) phosphate ions, ~~where~~ wherein the concentration of phosphate ions is from about 5 to about 90 mM; ~~and~~ (iii) water;

- (b) removing the first medium;
- (c) adding the incubated platelets to a second medium comprising (i) at least one polyhydroxy compound, **where wherein** the concentration of **the** polyhydroxy compound is from about 20 mM to about 500 mM; **and** (ii) phosphate ions, **where wherein** the concentration of ~~polyhydroxy compound~~ **phosphate ions** is from about 5 to about 90 mM ~~phosphate ions~~, **and** wherein the molar ratio of phosphate ions to hydroxyl groups in the polyhydroxy compound is about 0.01 to about 0.625 in the preserved biological material composition; and **(iii) water; and**
- (d) preserving the resulting composition using at least one preservation process.

35. (CURRENTLY AMENDED) The method of claim 34, wherein the second medium further comprises **an amount of** albumin.

36. (ORIGINAL) The method of claim 35, wherein the amount of albumin is from about 1% to about 10% by weight of the medium.

37. (CURRENTLY AMENDED) The method of claim 31 **34**, wherein the preservation process **in step (d)** is freezing.

38. (NEW) An aqueous preservation medium for preserving biological materials, comprising:

- (a) platelets;
- (b) trehalose, wherein concentration of the trehalose in the medium is from about 10 mM to about 300 mM;
- (c) phosphate ions, wherein concentration of phosphate ions in the medium is from about 5 mM to about 90 mM; and
- (d) water.

39. (NEW) The aqueous preservation medium of claim 39, further comprising albumin.
40. (NEW) A method of preparing a preserved biological material composition, comprising:
- (a) incubating platelets in a first medium comprising (i) trehalose, wherein the concentration of the trehalose is from about 20 to about 500 mM; (ii) phosphate ions, wherein the concentration of phosphate ions is from about 5 to about 90 mM; and (iii) water;
 - (b) removing the first medium;
 - (c) adding the incubated platelets to a second medium comprising (i) trehalose, wherein the concentration of the trehalose is from about 20 mM to about 500 mM; (ii) phosphate ions, wherein the concentration of phosphate ions is from about 5 to about 90 mM, and wherein the molar ratio of phosphate ions to hydroxyl groups in the polyhydroxy compound is about 0.01 to about 0.625 in the preserved biological material composition; and (iii) water; and
 - (d) preserving the resulting composition using at least one preservation process.
41. (NEW) The method of claim 40, wherein the second medium further comprises an amount of albumin.
42. (NEW) The method of claim 41, wherein the amount of albumin is from about 1% to about 10% by weight of the medium.
43. (NEW) The method of claim 40, wherein the preservation process in step (d) is freezing.